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(30) Priority: <b>15.04.88 JP 363 9129</b> (43) Date of application publication: <b>05.02.90</b> (84) Designated contracting states:	(71) Applicant: <b>SNOW BRAND MILK LTD</b> (72) Inventor: <b>SHIOTANI TOSHIAKI SAGARA YASUSHIGE KIMURA TOSHIAKI</b> (74) Representative:
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**(54) PRODUCTION OF  
CAPSULE SUBSTANCE  
ENCLOSING TASTY  
INGREDIENT**

(57) Abstract:

**PURPOSE:** To eliminate leaking or scattering of a liquid in opening a pack, etc., and continuously obtain the subject capsule substance excellent in salt resistance at a low cost by using an alkaline metal alginate at a low ratio of mannuronic acid to guluronic acid.

**CONSTITUTION:** Both of (A) a liquid substance containing a water-soluble bivalent metal salt and a tasting ingredient as a core liquid and (B) an aqueous solution of an alkaline metal alginate at <1.0 ratio (M/G) of (B) mannuronic acid (M) to guluronic acid (G) as a coating liquid are subjected to interfacial reaction and gelatinized to afford the objective capsule substance containing the ingredient (A) as the

core substance coated with a gel of the ingredient (B).

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**Prod. of capsule contg. flavouring and bivalent metal salt - by interface reaction with alkali metal alginate and encapsulation with bivalent metal alginate**

**Patent Assignee:** SNOW BRAND MILK PROD CO LTD; YUKIJIRUSHI NYUGYO KK

### Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 2035066	A	19900205	JP 8982853	A	19890331	199011	B
JP 92046099	B	19920728	JP 8982853	A	19890331	199234	

**Priority Applications (Number Kind Date):** JP 8891294 A ( 19880415); JP 8982853 A ( 19890331)

### Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 2035066	A		5		
JP 92046099	B		5	A23L-001/00	Based on patent JP 2035066

### Abstract:

JP 2035066 A

Prod. of capsule enclosing flavouring component comprises (1) gelling (I) liquid material contg. the flavouring component, and (II) aqueous soln. of alkali metal alginate of up to 1.0 in ratio of mannuronic acid:glucuronic acid as coating soln. by interface reaction and (2) enclosing core body composed of flavour component with gel of bivalent metal alginate. (I) comprises water-soluble bivalent metallic salt, e.g. calcium chloride, lactate or gluconate, flavouring component and opt. gelatinous material or edible oil.

USE/ADVANTAGE - Edible capsule of seasoning such as soya bean sauce or ketchup, spice such as mustard or garlic or edible oil-contained emulsion such as salad dressing, or topping material or medicine is obtd. It tastes salty.

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## **PRODUCTION OF CAPSULE SUBSTANCE ENCLOSING TASTY INGREDIENT**

**Publication Number:** 02-035066 (JP 2035066 A) , February 05, 1990

### **Inventors:**

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### **Applicants**

- SNOW BRAND MILK PROD CO LTD (A Japanese Company or Corporation), JP (Japan)

**Application Number:** 01-082853 (JP 8982853) , March 31, 1989

### **International Class (IPC Edition 5):**

- A23P-001/04
- A23L-001/00
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- A23L-001/22
- B01J-013/14
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### **JAPIO Class:**

- 11.4 (AGRICULTURE--- Food Products)

### **Abstract:**

**PURPOSE:** To eliminate leaking or scattering of a liquid in opening a pack, etc., and continuously obtain the subject capsule substance excellent in salt resistance at a low cost by using an alkaline metal alginate at a low ratio of mannuronic acid to guluronic acid.

**CONSTITUTION:** Both of (A) a liquid substance containing a water-soluble bivalent metal salt and a tasting ingredient as a core liquid and (B) an aqueous solution of an alkaline metal alginate at <1.0 ratio (M/G) of (B) mannuronic acid (M) to guluronic acid (G) as a coating liquid are subjected to interfacial reaction and gelatinized to afford the objective capsule substance containing the ingredient (A) as the core substance coated with a gel of the ingredient (B). (From: *Patent Abstracts of Japan*, Section: C, Section No. 711, Vol. 14, No. 192, Pg. 47, April 19, 1990 )

### **JAPIO**

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**Basic Patent (Number,Kind,Date):** JP 2035066 A2 900205

**PATENT FAMILY:**

**Japan (JP)**

Patent (Number,Kind,Date): JP 2035066 A2 900205

PRODUCTION OF CAPSULE SUBSTANCE ENCLOSING TASTY INGREDIENT (English)

Patent Assignee: SNOW BRAND MILK PROD CO LTD

Author (Inventor): SHIOTANI TOSHIAKI; SAGARA YASUSHIGE; KIMURA TOSHIAKI

Priority (Number,Kind,Date): JP 8891294 A1 880415

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IPC: \* A23P-001/04; A23L-001/00; A23L-001/0532; A23L-001/22; B01J-013/14; A23L-001/212

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Patent Assignee: SNOW BRAND MILK PROD CO LTD

Author (Inventor): SHIOTANI TOSHIAKI; SAGARA YASUSHIGE; KIMURA TOSHIAKI

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